

BIRCH, STEWART, KOLASCH & BIRCH, LLP

TERRELL C. BIRCH
RAYMOND C. STEWART
JOSEPH A. KOLASCH
JAMES M. SLATTERY
MICHAEL K. MUTTER
CHARLES GORENSTEIN,
GERALD M. MURPHY, JR.
LEONARD R. SVENSSON
ANDREW D. MEIKLE
MARC S. WEINER
JOE MCKINNEY MUNCY
ROBERT J. KENNEY
JOHN W. BAILEY
MARK J. NUELL, PH.D.
JAMES T. ELLER, JR.
D. RICHARD ANDERSON
THOMAS M. SMALL*
ROBERT A. SELDON*
JOHN A. SCILLIERI*
SANFORD ASTOR*



INTELLECTUAL PROPERTY LAW

8110 GATEHOUSE ROAD
SUITE 100 EAST
FALLS CHURCH, VA 22042-1248

USA

(703) 205-8000

FAX: (703) 205-8050
(703) 698-8590 (G IV)

e-mail: mailroom@bskb.com
web: http://www.bskb.com

CALIFORNIA OFFICES:
COSTA MESA, CALIFORNIA
LOS ANGELES, CALIFORNIA

31108 U.S. PTO
10/673409
09/30/03

SCOTT L. LOWE
PAUL C. LEWIS
RICHARD J. GALLAGHER
MARYANNE ARMSTRONG, PH.D.
KECIA J. REYNOLDS
KALPANA REDDY
ESTHER H. CHONG
CATHERINE M. VOISINET*
EUGENE T. PEREZ
CAROLYN T. BAUMGARDNER*
MARTIN R. GEISSLER*
J. ALISON GRABELL*
T. BENJAMIN SCHROEDER, PH.D.
PERCY L. SQUARE
HYUNG N. SOHN
CLINT A. GERDINE
CRAIG A. MCROBBIE
WILLIAM F. NIXON*
DANIEL K. DORSEY
MATTHEW T. SHANLEY

OF COUNSEL:
HERBERT M. BIRCH (1905-1996)
BERNARD L. SWEENEY*
ELLIOT A. GOLDBERG*
WILLIAM L. GATES*
EDWARD H. VALANCE
RUPERT J. BRADY (RET.)*
F. PRINCE BUTLER
FRED S. WHISENHUNT (RET.)
JAMES W. HELLWEGE
QUENTIN R. "RICK" CORRIE
ROBERT F. GNUSE
DAVID R. MURPHY
ROBERT M. ASHEN*
MICHAEL R. CAMMARATA

*ADMITTED TO A BAR OTHER THAN VA.

Date: September 30, 2003

Docket No.: 3645-0114P

REG. PATENT AGENTS:
FREDERICK R. HANDREN
MAKI HATSUMI
GARTH M. DAHLEN, PH.D.
ROBERT E. GOOZNER, PH.D.
KRISTI L. RUPERT, PH.D.
SUSAN W. GORMAN, PH.D.
ROBERT W. DOWNS
CHAD J. BILLINGS
CHRISTINE V. CASTILLO
CARL T. THOMSEN
SAM BHATTACHARYA
BRADLEY C. FACH

MS PATENT APPLICATION
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Sir:

As authorized by the inventor(s), transmitted herewith for filing is a patent application applied for on behalf of the inventor(s) according to the provisions of 37 C.F.R. § 1.41(c), which claims priority under 35 U.S.C. § 119(e) of Provisional Application Nos. 60/414,657 filed on October 1, 2002 and 60/416,515 filed on October 8, 2002.

Inventor(s): Richard THOMPSON; Michele CRAMER; Carol Ann FIERKE; Hui Hui ZENG; and Rebecca BOZYM

For: EXCITATION RATIO METRIC FLUORESCENT BIOSENSOR FOR ZINC ION AT PICOMOLAR LEVELS

Enclosed are:

- A specification consisting of twenty-eight (28) pages
- Nine (9) sheet(s) of formal drawings
- Applicant does not claim priority

- Applicant claims the right of priority under 35 U.S.C. § 119 based on Application No(s). 60/414,657 and 60/416,515 filed in the United States Patent and Trademark Office on October 1, 2002 and October 8, 2002, respectively.
- Certified copy(ies) is(are) attached hereto.
- Certified copy(ies) will follow.
- Executed Declaration in accordance with 37 C.F.R. § 1.64 will follow
- Applicant claims small entity status under 37 C.F.R. § 1.27.
- Preliminary Amendment
- Application Data Sheet in accordance with 37 C.F.R. § 1.76
- Information Disclosure Statement, PTO-1449 and reference(s)
- Applicant requests early publication - \$300.00 publication fee
- Non-publication Request and Certification under 35 U.S.C. § 122(b)(2)(B)(i)
- Other:
- Provisional application filed in English:
- YES NO

If "NO," an English translation with a Statement of Accuracy:
 is attached hereto will follow.

The filing fee has been calculated as shown below:

			LARGE ENTITY	SMALL ENTITY
	BASIC FEE		\$750.00	\$375.00
	NUMBER FILED	NUMBER EXTRA	RATE FEE	RATE FEE
TOTAL CLAIMS	20-20=	0	x 18 = \$0.00	x 9= \$0.00
INDEPENDENT CLAIMS	2-3=	0	x 84 = \$0.00	x42= \$0.00
<input type="checkbox"/> MULTIPLE DEPENDENT CLAIMS PRESENTED			+ \$280.00	+ \$140.00
		TOTAL	\$0.00	\$375.00

- The application transmitted herewith is filed in accordance with 37 C.F.R. § 1.41(c). The undersigned has been authorized by the inventor(s) to file the present application. The original duly executed declaration together with the surcharge will be forwarded in due course.
- A check in the amount of \$375.00 to cover the filing fee is enclosed.
- Please charge Deposit Account No. 02-2448 in the amount of \$0.00. A triplicate copy of this transmittal form is enclosed.
- Please send correspondence to:
BIRCH, STEWART, KOLASCH & BIRCH, LLP or Customer No. 02292
P.O. Box 747
Falls Church, VA 22040-0747
(703) 205-8000

If necessary, the Commissioner is hereby authorized in this, concurrent, and future replies, to charge payment or credit any overpayment to Deposit Account No. 02-2448 for any additional fees required under 37 C.F.R. §§ 1.16 or 1.17; particularly, extension of time fees.

Respectfully submitted,

BIRCH, STEWART, KOLASCH & BIRCH, LLP

By Mark J. Nuell
Mark J. Nuell, #36,623

DRN/mua
3645-0114P

P.O. Box 747
Falls Church, VA 22040-0747
(703) 205-8000

Attachment(s)

(Rev. 08/12/03)